20

25

## I claim:

A method for diverting articles selected for removal from a stream of articles travelling along a pathway on a conveyor, said method comprising the steps of:

locating adjacent said pathway a deflector member adapted to rotate into said pathway to contact and controllably sweep selected articles from said stream of articles;

following removal of each selected article from said stream further rotating said deflector member thereby removing same out of said pathway to allow subsequent non-selected articles in said stream to continue along said pathway without being impeded by said deflector member; and adapting a synchronous motor to act in response to a predetermined signal to cause the said rotations of said deflector member.

2. A method for diverting beverage containers selected for removal from a stream of beverage containers travelling along a pathway on a conveyor, said method comprising the steps of: locating adjacent said pathway a deflector member adapted to rotate into said pathway to contact and controllably sweep a selected beverage container from said stream of articles; following removal of each selected beverage container from said stream, reversing the rotation of said deflector member thereby

20

removing same out of said pathway to allow subsequent nonselected beverage container in said stream to continue along said
pathway without being impeded by said deflector member; and
adapting a synchronous motor to act in response to a
predetermined signal to cause the said rotations of said
deflector member.

- 3. The method according to Claim 1 or 2 wherein said deflector member is adapted to initially contact said article at about a centre of gravity thereof.
- 4. The method according to Claim 1 or 2 wherein said deflector member is adapted to initially contact said article at, or in a zone, immediately adjacent to and below, a centre of gravity thereof.
- 5. The method according to Claim 1 or 2 wherein the degree of and/or the speed of rotation of the deflector is variable and is determined by the predetermined signal to achieve a desired lateral movement of the article from the stream of the selected articles.
- 6. The method according to Claim 4 wherein said signal originates from a sensing device and which identifies a specific condition selecting the article for rejection.

no criteria for getting - general recitation only

7. The method according to Claim 1 or 2 where the article is a beverage container.

Sub (197)

- A device for diverting an article selected for removal from a stream of articles travelling along a pathway on a conveyor said device comprising in combination a synchronous electric motor and an article deflector member, the latter being adapted to be:
  - (i)\ located adjacent said pathway;
  - (ii) rotatable by said motor into said pathway to contact and controllably sweep a selected article from said stream and,
  - (iii)rotatable by said motor out of said pathway to allow subsequent unselected articles to continue travelling along said pathway without contacting said deflector member,

- 9. The device according to Claim 8 wherein the article deflector member is mounted directly on to a drive shaft of said motor.
- 10. The device according to Claim 9 wherein the article deflector member is elongate and is rotatable in a horizontal manner about a vertical axis.

Sub-aud

10 []

ij1

20

25

- 11. The device according to Claim 9 wherein said motor is adapted to rotate said deflector member out of said pathway by rotating same in a reverse direction to said first rotation.
- 12. The device according to Claim 8 which is provided with bracket means to secure same to an associated conveyor.
- 13. The device according to Claim 11 wherein said bracket means is provided with adjusting means adapted to allow the position of said article deflector means to be varied in a vertical and/or horizontal position relative to said pathway of said associated conveyor.
- 14. A device for diverting an article selected for removal from a stream of articles travelling along a pathway on a conveyor said device comprising in combination a conveyor, a synchronous electric motor and an article deflector member, the latter being located adjacent said pathway and rotatable by said motor into

said pathway to contact and controllable sweep a selected article from said stream and rotatable by said motor out of said pathway to allow subsequent unselected articles to continue travelling alon said pathway without contacting said deflector member.

The device according to Claim 14 wherein the article deflector member is elongate and is rotatable horizontally about a vertical axis to extend over said pathway.

16. The device according to Claim 14 or 15 wherein said motor is adapted to rotate said deflector member out of said pathway by rotating same in a reverse direction to said first rotation.

17. The device according to Claim 14 or 15 which is provided with bracket means to secure said deflector member to said conveyor.

18. The device according to Claim 14 whrein said bracket means is provided with adjusting means adapted to allow the position of said article deflector means to be varied in a vertical and/or horizontal position relative to said pathway of said conveyor.

Odel B, >

10]]

M

15

20